

WHAT IS CLAIMED IS:

1 1. A method for resolving network connectivity, the method comprising:
2 determining whether a first device is included in a portion of a network in which
3 the first device can receive information directed to all devices included within the portion of the
4 network;
5 obtaining a first identifier associated with the portion of the network;
6 assigning a second identifier to the portion of the network unique to other portions
7 of the network;
8 modifying the first identifier associated with the portion of the network to include
9 the second identifier; and
10 associating the modified first identifier with the first device and the portion of the
11 network.

1 2. The method of claim 1, comprising:
2 identifying a second device included in the portion of the network; and
3 associating the modified first identifier with the second device.

1 3. The method of claim 1, comprising:
2 presenting a first symbol identifying the first device, connected to a second
3 symbol identifying the portion of the network using the modified first identifier.

1 4. The method of claim 1, wherein the portion of the network is a broadcast domain.

1 5. The method of claim 1, wherein the portion of the network is a Virtual Local Area
2 Network (VLAN).

1 6. The method of claim 5, wherein the first device is a network switch including a
2 Management Information Base (MIB) configured to store an identifier of the VLAN.

1 7. The method of claim 6, wherein obtaining the first identifier associated with the
2 portion of the network comprises:
3 using a Simple Network Management Protocol (SNMP) query to obtain the
4 identifier of the VLAN from the MIB as the first identifier.

1 8. The method of claim 1, wherein the first device is a port included in a network
2 switch.

1 9. The method of claim 1, wherein the first device is coupled to other portions of the
2 network by a network router.

1 10. A system for resolving network connectivity, the system comprising:
2 memory; and
3 a processor, including:
4 logic configured to determine, using information stored in the memory,
5 whether a first device is included in a portion of a network in which the first device can receive
6 information directed to all devices included within the portion of the network;

7 logic configured to obtain, from the memory, a first identifier associated
8 with the portion of the network;
9 logic configured to assign a second identifier to the portion of the network
10 unique to other portions of the network;
11 logic configured to modify the first identifier associated with the portion
12 of the network to include the second identifier; and
13 logic configured to associate the modified first identifier with the first
14 device and the portion of the network.

1 11. The system of claim 10, wherein the processor comprises:
2 logic configured to identify, using information stored in the memory, a second
3 device included in the portion of the network; and
4 logic configured to associate the modified first identifier with the second device.

1 12. The system of claim 10, comprising:
2 a display;
3 wherein the processor comprises logic configured to present on the display a first
4 symbol identifying the first device, connected to a second symbol identifying the portion of the
5 network using the modified first identifier.

1 13. The system of claim 10, wherein the portion of the network is a broadcast domain.

1 14. The system of claim 10, wherein the portion of the network is a Virtual Local
2 Area Network (VLAN).

1 15. The system of claim 14, wherein the first device is a network switch including a
2 Management Information Base (MIB) as a portion of the memory, the MIB being configured to
3 store an identifier of the VLAN.

1 16. The system of claim 15, wherein obtaining the first identifier associated with the
2 portion of the network comprises:
3 using a Simple Network Management Protocol (SNMP) query to obtain the
4 identifier of the VLAN from the MIB as the first identifier.

1 17. The system of claim 15, wherein the information stored in the memory used in
2 determining whether a first device is included in a portion of a network includes a first table
3 having an entry associating an identifier of the network switch with the identifier of the VLAN.

1 18. The system of claim 15, wherein the memory includes a second table having an
2 entry associating an identifier of the network switch with the second identifier.

1 19. The system of claim 10, wherein the first device is a port included in a network
2 switch.

1 20. The system of claim 10, wherein the first device is coupled to other portions of
2 the network by a network router.

1 21. A computer readable medium containing a computer program for resolving
2 network connectivity, wherein the computer program comprises executable instructions for:
3 determining whether a first device is included in a portion of a network in which
4 the first device can receive information directed to all devices included within the portion of the
5 network;
6 obtaining a first identifier associated with the portion of the network;
7 assigning a second identifier to the portion of the network unique to other portions
8 of the network;
9 modifying the first identifier associated with the portion of the network to include
10 the second identifier; and
11 associating the modified first identifier with the first device and the portion of the
12 network.

1 22. The computer readable medium of claim 21, wherein the computer program
2 comprises executable instructions for:
3 identifying a second device included in the portion of the network; and
4 associating the modified first identifier with the second device.

1 23. The computer readable medium of claim 21, wherein the computer program
2 comprises executable instructions for:
3 presenting a first symbol identifying the first device, connected to a second
4 symbol identifying the portion of the network using the modified first identifier.

1 24. The computer readable medium of claim 21, wherein the portion of the network is
2 a Virtual Local Area Network (VLAN).

1 25. The computer readable medium of claim 24, wherein the first device is a network
2 switch including a Management Information Base (MIB) configured to store an identifier of the
3 VLAN.

1 26. The computer readable medium of claim 25, wherein in obtaining the first
2 identifier associated with the portion of the network, the computer program comprises executable
3 instructions for:
4 using a Simple Network Management Protocol (SNMP) query to obtain the
5 identifier of the VLAN from the MIB as the first identifier.